

Robson Lapina

Forensic Engineers, Architects, Scientists & Fire Investigators

PHONE: 724-772-2244
800-813-8725

404 COMMERCE PARK DRIVE
CRANBERRY TOWNSHIP, PA 16066

FAX: 724-772-2256
WWW.ROBSONLAPINA.COM

GABRIEL G. ALEXANDER, P.E.
Mechanical Engineer

PROFESSIONAL EXPERIENCE

- 3/99 to present **Robson Lapina, Inc.**
Associate Manager of Pittsburgh Office
Provide technical investigations, analysis, reports, and testimony for failure analysis, and towards the resolution of commercial and personal injury litigation involving trucks, trailers, mechanical engineering and crash reconstruction.
- 1997 to 3/1999 **True Temper Hardware**, manufacturer of lawn and garden tools
Manager of Design Engineering
Responsible for all design engineering functions including new product development, product implementation, and patent applications. Products: shovels (plastic and metal), wheelbarrows, hoes, forks, scoops, tree trimmers, and general pruning tools. Develop Failure Modes and Effects Analysis (FMEA) procedure and plan for company-wide use.
- 1996 to 1997 **Trans Air Manufacturing**, air conditioning systems for trucks and buses
Director of Engineering
Responsible for all engineering functions. Products: air conditioning systems for transportation, components include compressor mountings and brackets, condenser units, evaporator units, roof top mounted air conditioning units, and rear deck mounted air conditioning units. Work included analyzing and reconfiguring truck belt drives for compressors and fans.
- 1993 to 1996 **Kidron, Inc.**, manufacturer of truck bodies, trailers, fire truck and utility vehicle cabs
Manager of Engineering
Responsible for all engineering functions: Production Engineering, Product Engineering, R & D, Warranty Department, and Quality Control. Products: truck bodies and refrigerated trailers, mini trailer, drop deck trailer, step van, rear drop, and container body.
- 1992 to 1995 **Stewart & Stevenson Inc.**, manufacturers of trucks and trailers
Project Engineer
Products: military and commercial trucks, trailers, truck components, a 2 1/2-5 ton truck family (utility truck, tow truck, ambulance, tanker, expandable van, etc.) Design activities included: optimizing suspension components, tire size, spring rate, damping rate, and sway bar stiffness and overall suspension geometry's; all R & M (Reliability and Maintainability) activities; brake systems, exhaust systems, and cargo beds.

02/06/02

Local offices throughout Indiana, Kentucky, Maryland, Massachusetts, Michigan, Missouri, New Jersey, New York, Ohio, Pennsylvania, Virginia and West Virginia.

Forensic Engineers, Architects, Scientists & Fire Investigators

Mechanical Engineer

1989 to Great Dane Trailers, manufacturers of semi-trailers
1992 E & D Project Engineer

1986 to Shell Development Company
1989 Engineer, Polymeric Materials Department
Fabrication and mechanical testing

1980 to Hydral Company, manufacturers of oil field equipment
1986 Design Engineer

PATIENTS

Foot Support - D412,093
Marine Riser Anti-Collapse Valve - 4,719,937
Diverter/BOP - 4,646,844
Diverter/BOP - 4,597,447
Diverter/BOP - 4,524,832
Flow Diverter - 4,456,061

PROFESSIONAL CREDENTIALS

Professional Engineer: Ohio, Pennsylvania

EDUCATION

E.S. in Mechanical Engineering, University of Houston

Continuing Colorwork

Advanced Dynamics

Advanced Mechanics of Materials

Advanced Vector Analysis

Vehicle Suspension Analysis, seminar

Heavy Vehicle Crash Reconstruction

Heavy Vehicle Rollover Prevention Analysis and Reconstruction

PROFESSIONAL MEMBERSHIP

Society of Automotive Engineers

American Society of Metals

American Society of Mechanical Engineers